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Bearbeitet: Prepared by:	S. Marz	**Org. Einh.:** Organ. Unit:	TE55	**Unternehmen:** Company:	EADS ST
Geprüft: Agreed by:	J. Bitomsky	**Org. Einh.:** Organ. Unit:	TE5Q	**Unternehmen:** Company:	EADS ST
Genehmigt: Approved by:	J. Frank	**Org. Einh.:** Organ. Unit:	TE55	**Unternehmen:** Company:	EADS ST
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CGS SW Release Notes

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Abstract:

This document issue provides the description of the CGS SW release 6.2.2 (engineering release for qualification purpose) based on CGS 6.2.1 release.

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DCR Daten/Dokument-Änderungsnachweis/Data/Document Change Record

Überarbeitung Revision	**Datum** Date	**Betroffener Abschnitt/Paragraph/Seite** Affected Section/Paragraph/Page	**Änderungsgrund/Kurze Änderungsbeschreibung** Reason for Change/Brief Description of Change
2/-	30.04.2004	All	Initial release (6.2.0)
2/A	13.05.2004	All	Bug Fixes (6.2.0.1)
2/B	07.07.2004	All	Extended Functionality for Aeolus (6.2.1)
2/C	27.08.2004	All	Extended UCL Debugger Functionality (6.2.2)
2/D	10.09.2004	All	Bug Fixing for 6.2.2
2/E	22.09.2004	All	Bug Fixing for 6.2.2
2/F	15.10.2004	All	Bug Fixing for 6.2.2
2/G	22.10.2004	All	Final version for 6.2.2

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1 Introduction

1.1 Identification and Scope

This document is the CGS_6.2.2 SW Release Notes. The release is identified by document CGS SRO [AD 2.1.1].

CI Name : CGS SW

CI Number : 1130992

CI Variant : 6.2.2

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1.2 Purpose

The purpose of this software release is a delivery to CGS AIV to qualify it.

1.3 Document Layout

This document has the following layout:

Chapter 1 provides the document identification and identifies under which CI this document is prepared. It also identifies the next higher level component CI. Chapter 1 also provides an overview of the purpose of the document and the overall document structure.

Chapter 2 provides the list of documents which are applicable or are referenced.

Chapter 3 provides an overall description of the release. Thus in this chapter all SW products being integrated are listed including the temporary fixes necessary to run the SW. This chapter also provides the identification of CCU versions being used for the SW product integration (if any).

Chapter 4 provides an overview of the release status. This includes a statement on the current test status and the identification of SPRs being fixed with this release.

Chapter 5 provides the installation instruction for the CGS SW.

Appendix A provides a list of abbreviations being used

Appendix B provides a list of terms being used in a certain sense.

Appendix C provides the file listing of the delivery.

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2 Applicable and Reference Documents

2.1 Installation Manuals

CGS-RIBRE-SUM-0002: CGS Installation Manual, Issue 2/-, 12.09.2003

2.1.1 Software Release Order

CGS-RIBRE-SRO-0006: CGS Software Release Order, Issue 2/G 22.10.2004

2.2 User Manuals

CGS-RIBRE-SUM-0001:	CGS User Manual, Issue 3/1, 15.10.2004
COL-RIBRE-MA-0030-00	MDA Introduction Manual, Issue 3/B 4.4.1997
COL-RIBRE-MA-0031-00	MDA Reference Manual, Issue 4/D 26.06.2001
COL-RIBRE-MA-0018-00	MDA Administration Manual, Issue 4/B 31.03.2000
COL-RIBRE-MA-0037-00	DADIMA Introduction Manual, Issue 3/- 4.4.1997
COL-RIBRE-MA-0032-00	DADIMA Reference Manual, Issue 4/- 1.9.1997
COL-RIBRE-MA-0036-00	DADIMA Administration Manual, Issue 4/- 1.9.1997
COL-RIBRE-MA-0032-00	SID Range Tool Users and Operations Manual, Issue 1/- 15.09.1997
UM-114-001-ROV	GWDU User's Manual and Operations Manual, Issue 1.4, 1999

2.3 Reference Manuals

CGS-RIBRE-STD-0001	User Control Language (UCL) Reference Manual, Issue 2/A, 01.09.2004
CGS-RIBRE-STD-0002	High Level Command Language (HLCL) Reference Manual, Issue 2/A, 01.09.2004
CGS-RIBRE-STD-0003	Virtual Stack Machine and I-Code Reference Manual, Issue 2/A, 01.09.2004
COL-RIBRE-STD-0008	Reference Manual for Crew Procedure Language and Software, Commanding, Issue 1/F, 31.10.2001

2.4 Requirements Specifications

CGS-RIBRE-SPE-0001	Columbus Ground System (CGS) Requirement Specification, Issue 2/D, 23.03.2004

2.5 Design Documentation

COL-RIBRE-ADD-0006	Columbus Ground System (CGS) Software Architectural Design Document, Issue 4/B, 30.10.1998

2.6 Interface Definitions

CGS-RIBRE-ICD-0001 System to CGS ICD, Issue 1/-, 31.01.2002

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3 Release Overview

3.1 CCU Version Identification

This CGS SW Release provides no mission database content.

3.2 Integrated Products

In following table all SW components are identified necessary to build this release of the CGS SW.

- CGSI
- CLS
- DBS / Command History
- GWDU
- HCI
- MDA / CGS_MBD_V6_2_0
- TES
- TEV
- TSCV
- TSS
- CGS_API

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3.3 Release Media & their Contents

The VTC SW System is delivered on a as being identified in Table 1.

Data Carrier ID	*Title / Contents*	*Receiver*
CGS-RIBRE-DC-0077	*CGS_6.2.2 (Master) identical to CGS_6.2_B14 (Master)*	*Dcc*
CGS-RIBRE-DC-0078	*CGS_6.2.2 (Backup) identical to CGS_6.2_B14 (Backup)*	*CGS AIV*
CGS-RIBRE-DC-0079	*CGS_6.2.2 optional (Master) identical to CGS_6.2_B14 optional*	*Dcc*
CGS-RIBRE-DC-0080	*CGS_6.2.2 optional (Backup) identical to CGS_6.2_B14 optional*	*CGS AIV*
CGS-RIBRE-DC-0081	*CGS_6.2.2 Test SW (Master) identical to CGS_6.2_B14Test SW*	*Dcc*
CGS-RIBRE-DC-0082	*CGS_6.2.2 Test SW (Backup) identical to CGS_6.2_B14 Test SW*	*CGS AIV*

Table 1 : Identification of Data Carriers

This delivery contains online documentation only.

3.4 Identification of the Generation and Test Environment

The CGS SW Generation environment is described in chapter 5 of the release notes of ref. [AD 2.1].

This version is internal identified by PDB checkpoint CGS_6.2_B14**.**

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4 SW Release Status

4.1 Release Status

The release status as defined by the SRO [AD 2.1.1.] is:

ENGINEERING RELEASE

4.2 Commercial Baseline

- ✓ Suse Linux Enterprise Server 8 / ServicePack3
- ✓ Oracle 9.2.0.5
- ✓ Gipsy 4.2.1 based on glibc 2.2 (with patch for call pr-3437)
- ✓ Dataviews 9.9
- ✓ CGS API with gnat 5.0.2a
- ✓ CIS CORBA Server with OrbRiver for Ada (CORBA 2.5, GIOP 1.2)

4.3 Compatibility Statement

The software is based on CGS 6.2.1.

The Special Application Software (SAS) build with CGS 6.2.1.0 API are compatible to this CGS version (except the TES_API procedures STORE_USER_FILE and RETRIEVE_USER_FILE).

Due to the new privileges concept in CGS, some of the system library procedures are guarded. For compatibility reasons to earlier versions like CGS 5.1.1 (usage of generated UCL user library sources, …) the user is able to removes all key words '*guarded*' in the delivered CGS UCL system library sources without lost of functionality (except the checking of privileges).

4.4 New or Updated Components

All software components are updated.

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4.5 New features in CGS_6.2.2

What's new in CGS_6.2.2 (in different to CGS 6.2.1)?

1. CGS UCL libraries

- changed system libraries **ground_common, ground_library, ground_values** and **packet_library** (for detailed information read description of procedures in the delivered system libraries in directory $CGS_HOME/gsaf/cgsi/lib/ucl/):

✓ ground_common: new UCL return status

```
constant SESSION_IS_USED            : UCL_RETURN := 110;
constant SESSION_IS_ARCHIVED        : UCL_RETURN := 111;
constant INVALID_SESSION_NAME       : UCL_RETURN := 112;
constant EXISTING_FILE              : UCL_RETURN := 127;
constant FILE_NOT_FOUND             : UCL_RETURN := 128;
constant FILE_NOT_OPEN              : UCL_RETURN := 129;
constant FILE_DATA_ERROR            : UCL_RETURN := 130;
constant ROUTE_TC_TO_EXTERNAL_OK    : UCL_RETURN := 131;
constant ROUTE_TC_TO_EXTERNAL_NOT_OK : UCL_RETURN := 132;
```

✓ ground_library: new and changed UCL procedures

```
procedure GET_SMT_STATUS
(out RUNNING: BOOLEAN;
 out OFFSET:  INTEGER;
 out STATUS:  UCL_RETURN);

guarded procedure SWITCH_SAS_REFERENCE
(in  ITEM:         ROUTE_SAS_ITEM_NAME ;
 in  SAS_NAME:     APPLICATION_NAME;
 in  OLD_SAS_NAME: APPLICATION_NAME := NULL_APPLICATION_NAME;
 out STATUS:       UCL_RETURN); -- not implemented yet - place holder only

procedure GET_SAS_REFERENCE
(in  ITEM:     ROUTE_SAS_ITEM_NAME ;
 out SAS_NAME: APPLICATION_NAME;
 out STATUS:   UCL_RETURN); -- not implemented yet - place holder only


procedure ADD_USER_FILE_TO_TEST_SESSION
(in  FILE_NAME:     STRING;
 in  FILE_TYPE:     STRING := "ANY ";
 in  SESSION:       STRING := "";
 in  PRODUCER:      STRING := "";
 in  CREATION_TIME: TIME := ~:~;
 out SESSION_NAME:  T_SESSION_NAME;

function GET_NODE_FOR_ITEM (ITEM: PATHNAME): NODE_NAME;
```

✓ ground_values: new and changed procedures

```
procedure GET_STATE_CODE_PAIR
 (in  ITEM:        DISCRETE_VALUE;
  in  PAIR_NUMBER: STATECODE_PAIR_RANGE;
  out RAW_VALUE:   UNSIGNED_INTEGER;
  out ENG_VALUE:   STATECODE;
  out STATUS:      UCL_RETURN);

guarded procedure SET_STATE_CODE_PAIR
 (in  ITEM:        DISCRETE_VALUE;
  in  PAIR_NUMBER: STATECODE_PAIR_RANGE;
  in  RAW_VALUE:   UNSIGNED_INTEGER;
  in  ENG_VALUE:   STATECODE;
  out STATUS:      UCL_RETURN);

guarded procedure ENABLE_ON_UNSIGNED_INTEGER
(in  ITEM :            ACQUISITION_COLLECTION;
 in  CONDITION_ITEM :  UNSIGNED_MONITOR_ITEM_NAME;
 in  CONDITION_CHECK : CONDITION;
 in  CONDITION_VALUE : UNSIGNED_INTEGER;
 in  SINGLE_SHOT :     BOOLEAN;
 out CONDITION_REF :   INTEGER;
```


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```
 out STATUS :          UCL_RETURN);

guarded procedure ENABLE_ON_DOUBLE_FLOAT
(in  ITEM :            ACQUISITION_COLLECTION;
 in  CONDITION_ITEM :  DOUBLE_FLOAT_MONITOR_ITEM_NAME;
 in  CONDITION_CHECK : CONDITION;
 in  CONDITION_VALUE : LONG_REAL;
 in  SINGLE_SHOT :     BOOLEAN;
 out CONDITION_REF :   INTEGER;
 out STATUS :          UCL_RETURN);



guarded procedure SET_LIMIT_SET_ON_UNSIGNED_INTEGER
(in ITEM :             MONITOR_COLLECTION;
 in  LIMIT_SET :       LIMIT_SET_NUMBER;
 in  CONDITION_ITEM :  UNSIGNED_MONITOR_ITEM_NAME;
 in  CONDITION_CHECK : CONDITION;
 in  CONDITION_VALUE : UNSIGNED_INTEGER;
 in  SINGLE_SHOT :     BOOLEAN;
 out CONDITION_REF :   INTEGER;
 out STATUS :          UCL_RETURN);


guarded procedure SET_LIMIT_SET_ON_DOUBLE_FLOAT
(in  ITEM :            MONITOR_COLLECTION;
 in  LIMIT_SET :       LIMIT_SET_NUMBER;
 in  CONDITION_ITEM :  DOUBLE_FLOAT_MONITOR_ITEM_NAME;
 in  CONDITION_CHECK : CONDITION;
 in  CONDITION_VALUE : LONG_REAL;
 in  SINGLE_SHOT :     BOOLEAN;
 out CONDITION_REF :   INTEGER;
 out STATUS :          UCL_RETURN);


guarded procedure START_AP_ON_UNSIGNED_INTEGER
(in  AP :              AP_NAME;
 in  CONDITION_ITEM :  UNSIGNED_MONITOR_ITEM_NAME;
 in  CONDITION_CHECK : CONDITION;
 in  CONDITION_VALUE : UNSIGNED_INTEGER;
 in  SINGLE_SHOT :     BOOLEAN;
 out CONDITION_REF :   INTEGER;
 out STATUS :          UCL_RETURN);

guarded procedure START_AP_ON_DOUBLE_FLOAT
(in  AP :              AP_NAME;
 in  CONDITION_ITEM :  DOUBLE_FLOAT_MONITOR_ITEM_NAME;
 in  CONDITION_CHECK : CONDITION;
 in  CONDITION_VALUE : LONG_REAL;
 in  SINGLE_SHOT :     BOOLEAN;
 out CONDITION_REF :   INTEGER;
 out STATUS :          UCL_RETURN);
```

- ✓ packet_library: changed UCL procedure parameter profile

```
procedure Start_AP_On_Arrival_Of_ADU
  (in  ADU:                T_ADU_Path;
   in  AP_Pathname:        T_AP_Path();
   out Buffer_ID:          T_Buffer_ID;
   out Status:             P_Status );
```

- new system libraries **system**, **text_file_io** and **binary_file_io** (for detailed information read description of procedures in the delivered system libraries in directory $CGS_HOME/gsaf/cgsi/lib/ucl/):

  - ✓ system: contains OS system procedures

```
guarded procedure EXECUTE
guarded procedure EXECUTE_AND_WAIT
function          EXISTS
guarded procedure DELETE
procedure         CREATE_DIRECTORY
```

  - ✓ text_file_io: contains procedures for text file input/output

```
procedure CREATE
procedure OPEN
```

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```
procedure APPEND
procedure CLOSE
procedure RESET
procedure REWRITE
procedure REMOVE
function  END_OF_FILE
function  END_OF_LINE
function  IS_OPEN
function  FILE_SIZE
procedure GET_FILE_NAME
procedure WRITE
procedure WRITE_LINE
procedure WRITE_CHARACTER
procedure WRITE_INTEGER
procedure WRITE_UNSIGNED
procedure WRITE_REAL
procedure WRITE_LONG_REAL
procedure WRITE_STATECODE
procedure WRITE_TIME
procedure WRITE_BYTES
procedure Read
procedure Read_Line
procedure Read_Integer
procedure Read_Unsigned
procedure Read_Real
procedure Read_Long_Real
procedure Read_Statecode
procedure Read_Time
procedure Read_Bytes
function  File_Column
procedure Set_File_Column
```

- ✓ binary_file_io: contains procedures for binary file input/output

```
procedure CREATE
procedure OPEN
procedure APPEND
procedure CLOSE
procedure RESET
procedure REWRITE
procedure REMOVE
function  END_OF_FILE
function  IS_OPEN
function  FILE_SIZE
procedure GET_FILE_NAME
procedure WRITE_BYTE
procedure WRITE_WORD
procedure WRITE_LONG_WORD
procedure WRITE_RAW_BYTES
procedure READ_BYTE
procedure READ_WORD
procedure READ_LONG_WORD
procedure READ_RAW_BYTES
```

- Changed user library body **file_io_lib**, which is based now on the text_file_io and system system libraries and does not use any longer the FILE_IO_SAS. The specification of the file_io_lib is unchanged. The old body is still delivered in file file_io_lib.with_file_io_sas.ucl.

2. CGS TES_API

- -- CGS 6.2.2 baseline, PIRN 8338:
  -- Change parameter profiles:
  -- Use Ada.Strings.Unbounded.Unbounded_String instead of
  -- VICOS_DEFINITIONS.T_NAME_STRING or VICOS_DEFINITIONS.T_NAME

  New parameter profile for procedure STORE_USER_FILE:

  ```
  procedure STORE_USER_FILE
  ```

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```
(FILE_NAME    : in  STRING;
 FILE_TYPE    : in  STRING := "ANY ";
 SESSION_NAME : out Ada.Strings.Unbounded.Unbounded_String;
 STATUS       : out TES_DEFINITIONS.T_RETURN_STATUS;
 Timeout      : in  Duration := P_Api_Controller.Timeout_For_Read;
 Retries      : in  Natural  := P_Api_Controller.Default_Retries);
```

New parameter profile for procedure RETRIEVE_USER_FILE:

```
procedure RETRIEVE_USER_FILE
(SESSION_NAME : in  STRING;
 FILE_NAME    : in  STRING;
 LOCATION     : out Ada.Strings.Unbounded.Unbounded_String;
 STATUS       : out TES_DEFINITIONS.T_RETURN_STATUS;
 Timeout      : in  Duration := P_Api_Controller.Timeout_For_Read;
 Retries      : in  Natural  := P_Api_Controller.Default_Retries);
```

3. CGS I-Code Version

- In this version the actual I-Code version is 2/A. The UCL compiler generates code for this version and TES can interpret I-Code for this version only. Due to this change, a complete recompile of your ground sources is mandatory.

4. CLS

- HLCL/UCL language extension:

  - ✓ Dot notation (HLCL and UCL):
    dot notation to specify predefined identifier (e.g. .INTEGER)

  - ✓ ?? **identifier** (HLCL):
    double question mark for not abbreviated identifier (whole word matching) display detailed information about the identifier

- UCL DEBUGGER:
  In this version the UCL debugger is available.
  It can be started in OTC menu [Online Test Control] -> [UCL Browser] -> [DEBUG] for a selected end item of type UCL_AUTOMATED_PROCEDURES.
  Furthermore it can be started via command line interface (call $CGS_HOME/gsaf/cls/bin/$CGS_ARCH/ucl_debugger -h for complete parameter profile).

  Remark: The usage of the default path variable (\\) for different system library routines like WRITE_MESSAGE_TO_USER inside the UCL DEBUGGER is depend on setting of the TES configuration parameter TES.DEFAULT_WORKSTATION. (see library call GROUND_LIBRARY.SET_DEFAULT_WORKSTATION too)

5. OTC (HCI)

- Graph Facility: In the OTC graph facility it is now possible to define line type and line colour for different values. The background colour of the graph facility can be defined in the OTC properties file ($CGS_HOME/etc/otc-properties.xml).

- Properties: Due the reimplementation of the OTC graph facility and the some problem fixes, the definition of the OTC properties file ($CGS_HOME/etc/otc-properties.xml) has been changed:

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```
Deleted:
  <group name = "GRAPH_FACILITY">
    <attribute name = "Default">
  <group name = "VALIDATION">
    <attribute name = "Validation">On</attribute>

New:
  <group name = "GRAPH_FACILITY">
    <attribute name = "Logo">$CGS_HOME/etc/logo.v</attribute>
    <!-- Logo file name. -->

    <attribute name="TemplatesDirectory">$CGS_HOME/etc/templates/gf_black_background</attribute>
    <attribute name="DefaultColors">0, 204, 255; 0, 0, 255; 155, 0, 255; 255, 0, 255; 255, 0, 192; 255, 0,
132; 255, 0, 0;  255, 98, 0</attribute>
    <!-- comma/semicolon separated list of RGB values for each measurement
         that can be loaded into Graph Facility (in decimal) -->
    <attribute name="LineTypeDirectory">$CGS_HOME/etc/bitmaps/line_types</attribute>


   <group name = "SYNOPTIC_DISPLAY">
    <attribute name = "Resize_Always">False</attribute>
    <!-- If resize always is set, the window is always resized to the display
         parameter size as defined by GWDU. Default is false. -->
    <attribute name = "Logo">$CGS_HOME/etc/logo.v</attribute>
    <!-- Logo file name. -->

  <group name = "DATA_CONTROL_WINDOW">
    <!-- Key/action codes can be determined in OTC debug mode.
         In debug mode, all keys/actions on synoptic display (freeze
         mode) are printed to standard out.
    Function keys F1-F12 are 32605-32616, ASCII keys correspond
         to their code, e.g. space is 32. For a complete list,
         see XView Reference Manual. -->
    <attribute name = "KeyGotoFirst">32602</attribute>
    <!-- Defines the key on which the freeze mode buffer is scrolled
    to the first element, default is cursor key down. -->

    <attribute name = "KeyGotoPrevious">32598</attribute>
    <!-- Defines the key on which the freeze mode buffer is scrolled
    to the first element, default is cursor key left. -->

    <attribute name = "KeyGotoNext">32600</attribute>
    <!-- Defines the key on which the freeze mode buffer is scrolled
    to the first element, default is cursor key right. -->

    <attribute name = "KeyGotoLast">32596</attribute>
    <!-- Defines the key on which the freeze mode buffer is scrolled
    to the first element, default is cursor key up. -->
```

4.6 SW Problem Status

4.6.1 SPR Status and Impact Analysis

For this release 62 SPR's are solved.

ID	TITLE
SPR-10241	TES needs to be stopped if connection to TSS lost
SPR-11633	HCI crash
SPR-13900	Cannot search with pathname as selection criterion
SPR-14303	installer lose $CGS_HOME
SPR-14331	TEV: Choose Measurements Window not working with long lists
SPR-14681	TES cannot load large scoe files
SPR-14699	CLS: No multiple item compilation in interactive make mode
SPR-15122	No APID extension bit in command history
SPR-15231	Constraint Error when closing Test Session
SPR-15394	Use of Colour in Graph Facility

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SPR-15437 Graph facility - freeze/unfreeze handling.
SPR-15438 Graph Facility - Display problems
SPR-15441 Filter/Properties indication in Header of CGS Message Handler
SPR-15646 Constraint_Error from CLS in TP 32
SPR-15711 HCI crash after HLCL window quit
SPR-15722 GWDU Incompatibility DV/Gipsy
SPR-15731 Consistency checker aborts after hours
SPR-15815 Outdated SMT time in CCSDS secondary header
SPR-15850 Data Delivery Lost in Freeze Mode
SPR-15896 TEV segmentation fault during Event Listing
SPR-15897 ORACLE error during Command History XML report
SPR-15911 OTC freeze mode without keystroke control
SPR-15914 TEV cannot print result files
SPR-15917 TEV: Nickname in merged datasets are not correct
SPR-15921 TEV File-Manager Store button for External Data Listing enabled
SPR-15970 UCL User Library MOIS_CIS_LIB obsolete in CGS 6
SPR-15980 GIPSY based GWDU does not start on workstations
SPR-16030 Error when moving running synoptic display across screens
SPR-16038 Operating several HLCL interpreters in parallel not possible
SPR-16092 SMT-Notification service not working on Linux
SPR-16127 CIS raises InternalError in sendTC though command was written to the command history
SPR-16175 Session Name Filter not properly working
SPR-16178 GWDU: Misleading wrong warning requesting 2 variables
SPR-16194 'Emergency AP not found' reported by TES
SPR-16200 Consistency check CGS-ERR-0010 ignored with error message
SPR-16201 Consistency check CGS-ERR-0074 ignored with error message
SPR-16204 Events from multiple sessions not sorted
SPR-16221 TEV: No data listing for data sets in TRDB
SPR-16237 Message Handler -> Print does not work (Linux)
SPR-16252 CIS stops with storage error during startup
SPR-16253 HLCL Uptodate check erroneous
SPR-16258 Wrong monitoring colors in graph with logarithmic scale
SPR-16266 CD-MCS NTP Synchronisation with Col CC
SPR-16389 CIS Internal Error Exception when loading Manual Stack
SPR-16423 Incorrect Process-ID returned from Process-Creation-Server
SPR-16454 CGS Priv Tool sets new change date even even when in read mode
SPR-16461 CLS: HLCL does not accept .xxx notation within expressions
SPR-16466 CIS provides wrong consistency date for XML SCOE file identifier
SPR-16472 Sending of Two Stage Command failed
SPR-16475 Up-to-date status not correctly recognized in HLCL
SPR-16476 Various problems with CGS components

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SPR-16486 Wrong measurement extraction from ADU with structure ID
SPR-16488 Mismatch in Get/Set operations for discrete calibration
SPR-16492 CLS: Indexed assignment to string wrong in UCL Debugger
SPR-16493 Wrong instructions for system library installation
SPR-16501 CONSTRAINT_ERROR from cls_encoding
SPR-16504 Extracted data from ADUs totally wrong in some cases
SPR-16537 Ground Values Library: Calibration of Statecodes
SPR-16579 cgs_daemon uses more than 90% CPU (sometimes)
SPR-16586 Huge gmem.out file
SPR-16616 TES ADU packets discarded number not updated
SPR-16632 CGS Configurator: Install Users fails

4.6.2 Temporary fixed Problems

No temporary fixes have been prepared for this release.

4.6.3 Further Open Problems

SPR-15905 OTC Synoptic: OTC Crashed When Loading Realtime Graph

Solution available - Problem is tracked by Patschke & Rasp (number pr-3437).

(use the newest GIPSY 4.2.1 version)

SPR-16572 TES: SCOE file loading much slower than with CGS 6.2.1

Due to an erroneous implementation the initialization of the TES is mach slower than with CGS 6.2.1. This problem will be solved in the next CGS version.

4.6.4 Known Restrictions

- It is not possible to prepare a telecommand (SWOP, FLAP, PUS_TC, and TC) via CIS, if this telecommand is defined with garded parameters in the parameter lists.
- HCI does not support the grouping feature with respect to dynamic elements yet, i.e. dynamic elements contained in groups are not animated. If there are displays with such groups, the user can use the GWDU to resolve the groups (select group element and execute popup menu command "Ungroup") or wait for next CGS version.

4.7 Test Status

This CGS SW release shall be executed on Intel PC with SUSE Linux Enterprise Server 8 (SLES8) based environments. The test status is CGS - AIV tested.

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5 Installation Procedures

This software shall be used on Intel PC with SUSE Linux Enterpriser Server 8 (SLES8).

5.1 Complete Installation

For a complete installation follow the instructions of CGS installation manual ref. [AD 2.1].

5.2 Patch Installation (based on CGS 6.2.1)

For a patch installation follow the next instructions:

5.2.1 Needed passwords

- <oracle> (UNIX user)
- <cgsadmin> (UNIX user)
- <MDB_ADM> (oracle user)

5.2.2 Installation steps

1. login as <cgsadmin> on DB server host

2. cgs shutdown via task_selector

3. quit task_selector

4. terminate the cgs_daemon
   in shell: killall -9 cgs_daemon

5. stop command history (on command history server)
   in shell: $CGS_HOME/gsaf/dbs/bin/common/stop_cmd_history

6. insert CGS basic CD CGS_6.2.2

7. mount CD

8. install all products from CD
   in shell: /<mountpoint>/installer.sh

   Select Continue, Continue, Install, -- for CGS
   Previous, TOOLS, Continue, Install -- for TOOLS
   Exit

9. unmount CD

10. register version
    in shell: vit_manager -upd_item cgs VERSION 6.2.2

11. insert CGS optional CD CGS_6.2.2
    REMARK: This and the next four steps are optional.

12. mount CD

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13. install all optional products from CD
    in shell: $CGS_HOME/gsaf/config/bin/installer.tcl

```
       Continue

Select for Installation Source path /<mountpoint>/gsaf

       Continue, Install,    -- for CGS optional
       Previous,

Select for Installation Source path /<mountpoint>/addon

       Continue, Install     -- for add-ons (unsupported)
       Exit
```

14. unmount CD

15. register version
    in shell: vit_manager -upd_item cgs_optional VERSION 6.2.2

16. install new system libraries and recompile all UCL/HLCL sources

in MDB:

- ✓ Open CLS-Editor for GROUND_COMMON UCL system library.
- ✓ Delete old source.
- ✓ Load new source from $CGS_HOME/gsaf/cgsi/lib/ucl/ground_common_.ucl.
- ✓ Compile and Store library. Close editor.
- ✓ Repeat steps before for GROUND_VALUES, GROUND_LIBRARY, RAW_DATA_LIBRARY, PACKET_LIBRARY (ground_values_.ucl, …).
- ✓ Create new UCL_SYSTEM_LIBRARY end items for SYSTEM, TEXT_FILE_IO, and BINARY_FILE_IO, insert the sources from file system, set the correct Body ID as specified in UCL source code and compile and store.
- ✓ Replace, if you want – not mandatory , the body for UCL user library FILE_IO_LIB, compile and store.
- ✓ Use force batch compilation for all effected CCUs.

17. update the MDB / MDB stored procedures
    in shell:

```
$CGS_HOME/patches/CGS_6.2.2/patch_mdb.sh

verify output: MDB patch successfully installed

REMARK: The next command is only necessary for an update of the internal data structure of
         the MDB (e.g. new data structure delivery for extended databases
        (user defined data types)). During initialization all user entries in the flexible
         tool invocation are deleted.

         This command is optional and the usage shall be decided by projects.

$CGS_HOME/gsaf/mda/config/mdb/install/admin_scripts/initialize_mdb

$CGS_HOME/gsaf/mda/config/mdb/install/admin_scripts/update_plsql_stored_procedures
```

18. reboot server and if the server is ready, reboot all clients

6. Acronyms

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CCU	*Configuration Control Unit*
CGS	*Columbus Ground SW*
MDBD	*Mission Data Base Data*
PDB	*Project Data Base*
SW	*Software*

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7. Definitions

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8. File Listings

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